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APPLICATION NO.	· FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/699,809	11/03/2003	Mitsuru Arai	03665/LH	4459	
1933 7590 07/27/2007 FRISHAUF, HOLTZ, GOODMAN & CHICK, PC 220 Fifth Avenue 16TH Floor NEW YORK, NY 10001-7708			EXAMINER WEINSTEIN, LEONARD J		
			ART UNIT	PAPER NUMBER	
,			3746	,	
			MAIL DATE	DELIVERY MODE	
			07/27/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Advisory Action Before the Filing of an Appeal Brief

Application No.	Applicant(s)		
10/699,809	ARAI ET AL.		
Examiner	Art Unit		
Leonard J. Weinstein	3746		

	Leonard J. Weinstein	3/46	
The MAILING DATE of this communication appe	ars on the cover sheet with the	correspondence add	ress
THE REPLY FILED <u>06 July 2007</u> FAILS TO PLACE THIS APPL			
1. \(\sime\) The reply was filed after a final rejection, but prior to or on			indonment of
this application, applicant must timely file one of the follow	ving replies: (1) an amendment, at	ffidavit, or other evider	nce, which
places the application in condition for allowance; (2) a No	tice of Appeal (with appeal fee) in	compliance with 37 C	FR 41.31; or (3)
a Request for Continued Examination (RCE) in compliance	ce with 37 CFR 1.114. The reply m	iust be filed within one	of the following
time periods:			
a) \square The period for reply expires 3 months from the mailing date			
b) The period for reply expires on: (1) the mailing date of this A	dvisory Action, or (2) the date set forth	n in the final rejection, wh	ichever is later. In
no event, however, will the statutory period for reply expire is			
Examiner Note: If box 1 is checked, check either box (a) or (E FIRST REPLY WAS F	ILED WITHIN
TWO MONTHS OF THE FINAL REJECTION. See MPEP 70 Extensions of time may be obtained under 37 CFR 1.136(a). The date	on which the netition under 37 CFR 1	136(a) and the appropria	te extension fee
have been filed is the date for purposes of determining the period of extensions of the period of the period of extensions of the period of th	tension and the corresponding amount	t of the fee. The appropr	iate extension fee
under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the s	shortened statutory period for reply original	ginally set in the final Offi	ice action; or (2) as
set forth in (b) above, if checked. Any reply received by the Office later	than three months after the mailing d	ate of the final rejection,	even if timely filed,
may reduce any earned patent term adjustment. See 37 CFR 1.704(b)	•		
NOTICE OF APPEAL	P	. Elland middelin Arma mandd	ha af tha data af
2. The Notice of Appeal was filed on A brief in comp	bliance with 37 CFR 41.37 must be	e filed within two monti	ns of the date of
filing the Notice of Appeal (37 CFR 41.37(a)), or any external a Notice of Appeal has been filed, any reply must be filed	nsion thereof (37 CFR 41.37(e)), t	0 avoiu uisiiiissai 01 ii 27 CED 41 27(a)	ie appeai. Since
	within the time period set forth in	37 Of IC 41.37(a).	
AMENDMENTS	to a colon to the plate of filling a bain	f will mak be entered b	
3. The proposed amendment(s) filed after a final rejection,			ecause
(a) They raise new issues that would require further co		TE below);	
(b) They raise the issue of new matter (see NOTE belo	W); kan famo fan amaan laku maakamialku m	advalaa as almalifiilaa	the issues for
(c) They are not deemed to place the application in bet	tter form for appeal by materially re	eaucing or simplifying	the issues for
appeal; and/or (d) ☐ They present additional claims without canceling a	corresponding number of finally re	piected claims	
· · · — · · ·		geolea ciaims.	
NOTE: (See 37 CFR 1.116 and 41.33(a)).			(DTOL 224)
4. The amendments are not in compliance with 37 CFR 1.1.		ompliant Amendment	(PTOL-324).
Applicant's reply has overcome the following rejection(s)			
Newly proposed or amended claim(s) would be al	lowable if submitted in a separate	, timely filed amendme	ent canceling the
non-allowable claim(s).		and the second second second	
7. For purposes of appeal, the proposed amendment(s): a)	☐ will not be entered, or b) ☐ w	ill be entered and an	explanation of
how the new or amended claims would be rejected is pro- The status of the claim(s) is (or will be) as follows:	vided below of appended.		
Claim(s) allowed:			
Claim(s) objected to:			
Claim(s) rejected:			
Claim(s) withdrawn from consideration:			
AFFIDAVIT OR OTHER EVIDENCE			
8. The affidavit or other evidence filed after a final action, but	it before or on the date of filing a N	Notice of Appeal will no	ot be entered
because applicant failed to provide a showing of good an	d sufficient reasons why the affida	vit or other evidence i	s necessary and
was not earlier presented. See 37 CFR 1.116(e).			
The affidavit or other evidence filed after the date of filing	a Notice of Appeal, but prior to th	e date of filing a brief,	will <u>not</u> be
entered because the affidavit or other evidence failed to o	overcome <u>all</u> rejections under appo	eal and/or appellant ta	ils to provide a
showing a good and sufficient reasons why it is necessar			
10. The affidavit or other evidence is entered. An explanation	n of the status of the claims after	entry is below or attac	nea.
REQUEST FOR RECONSIDERATION/OTHER			
11. The request for reconsideration has been considered but	it does NOT place the application	in condition for allowa	nce because:
See Continuation Sheet.	(DTO (OD (OO) Deve on No (o)		
12. Note the attached Information Disclosure Statement(s).	(P10/SB/08) Paper No(s).		
13. Other:	THE HAD		
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	ANTHONY D. STASHICK	hulft	(S)
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SUPERVISORY PATENT EXAMINER **TECHNOLOGY CENTER 3700**

Continuation of 11. does NOT place the application in condition for allowance because: 1. Applicant's arguments filed July 9, 2007 have been fully considered but they are not persuasive.

With regards to the Romectsch reference and claims 5, and 7-9 the applicant argues that control valve 40 controls outflow of fluid from a control chamber but does not control inflow of fluid into the control chamber therefore is not a control valve which is built-in the servo piston, and which controls inflow and outflow of oil in the oil chamber, and which is positioned by applying a (volume) control pressure thereto. With regards to the Kuroyanagai reference and claim 5 the applicant argues that since the spring 64 is held between the second piston 60 and the cap 63 according to Kuroyanagi et al, the spring 64 and the second control chamber 65 of Kuroyanagi et al are not within the servo piston 60. The applicant also argues that the spring 64 and control chamber 65 to do not constitute a "valve" or by definition: "any device for halting or controlling the flow of a liquid, gas, or other material through a passage, pipe, inlet, outlet, etc." As cited from Dictionary.com in the response by applicant of July 7, 2007. Further the applicant argues the spring 64 and second control chamber 65 of Kuroyanagi et al do not correspond to a control valve which is built-in the servo piston, and which controls inflow and outflow of oil in the oil chamber, and which is positioned by applying a (volume) control pressure, wherein the driving pressure in the oil chamber is changed by changing the position of the control valve by controlling the (volume) control pressure applied to the control valve. The applicant also argues that the Examiner's interpretation of Kuroyanagi et al in item 3 on pages 2 and 3 of the Office Action. Further the applicant has requested that the examiner's interpretation of Kuroyanagi et al, which prevents leaks through cap 63 (or 53), is referred to throughout the Office Action as forming part of a servo piston together with servo piston 60 of Kuroyanagi et al.

In response to applicant's argument that the control valve of Rometesch controls outflow of fluid from a control chamber but does not control inflow of fluid into the control chamber the examiner disagrees. The control valve allows fluid to pass from the chamber 34 to a pressure relief pocket 22 under a predetermined pressure that causes a control valve to permit fluid flow through tube 42, small bore 45, and large bore 46 (Rometesch - col. 3 ll. 53-65). When the control is forced to open the pathway to the tube 42, it is effectively controlling the inflow and outflow of fluid to the oil chamber. Prior to the valve element actuation no flow into or out of the chamber 34 can occur because the chamber is pressurized and filled with fluid. When the valve element is actuated and the pathway connecting tube 42 is open, fluid flows out of the oil chamber as well as fluid previously stopped within fluid delivery line 29 is introduced into the chamber 34 (Rometesch - col. 24-27). Therefore the control valve of Rometesch is a control valve that is built in a servo piston, and does control inflow and outflow of oil in the oil chamber, and is positioned by applying a (volume) control pressure thereto.

In response to applicant's argument that the spring 64 of the Kuroyanagi reference is held between the second piston 60 and the cap 63, and that the spring 64 and second control chamber 65 are clearly not within the second piston 60 the examiner clarifies the interpretation of the prior art as follows. Kuroyanagi does teach that the spring 64 is held between the second piston 60 and a cap 63, and that the second control chamber 65 is defined by the second piston 60, the second cylinder 68 and the cap 63 however Kuroyanagi also teaches a spring 64 that is affixed to a surface disposed below element 30 as shown in figure 3. Reference to element 30 was made in the prior Office Action for lack of a designation to the surface as discussed within the written description of Kuroyanagi. The surface disposed below element 30 and element 60 are considered to be the structure of the piston. The spring 64 and second control chamber 65 are within the servo piston and can be interpreted to be a control valve. Therefore Kuroyanagi as cited does teach a control valve built-in the servo piston, that controls inflow and outflow of oil in the oil chamber, and is positioned by applying a (volume) control pressure, wherein the driving pressure in the oil chamber is changed by changing the position of the control valve by controlling the (volume) control pressure applied to the control valve.

Further in response to applicant's argument that the spring 64 and control chamber 65 to do not constitute a "valve" or by the definition: "any device for halting or controlling the flow of a liquid, gas, or other material through a passage, pipe, inlet, outlet, etc," the examiner disagrees. The spring and control chamber of Kuroyanagi cited permit a flow of fluid from a chamber cited in the office action of April 20, 2007 to be element 66. Element 66 is in communication with a chamber as disclosed by Kuroyanagi as element 70 (Kuroyanagi - col. 4 II. 25-33). Therefore the elements of Kuroyanagi cited to constitute a device which halts/controls the flow of a liquid/gas through a passage. Further in response to applicant's argument the interpretation of Kuroyanagi et al in item 6 on page 4 of the Office Action conflicts with the interpretation of Kuroyanagi et al in item 3 on pages 2 and 3 of the Office Action, the examiner disagrees. Elements 17 and 66 are in communication with one another via element 70 and therefore a reference to both as an oil chamber is proper and the interpretation of the spring 64 and second control chamber 65 of Kuroyanagi et al as a "control valve" in item 6 of the Office Action does not conflict with the interpretation in item 3 of the Office Action.

In response to applicant's request for clarification with regards to the reference to element 30 as forming part of a servo piston the examiner made reference to element 30 in the prior Office Action for lack of a designation to the surface as discussed within the written description of Kuroyanagi. The surface disposed below element 30 and element 60 are considered to be the structure of the piston. The examiner would like to point out that in the Office of April 20, 2007 an error was made in item 3 whereby the office action should have stated that claims 5 and 6 were rejected under 35 U.S.C. 102(b) as being anticipated by Kuroyanagi et al. 4,652,215.